

Title (en)

Coated expandable styrene beads

Title (de)

Beschichtete expandierbare Polystyrolpartikel

Title (fr)

Perles styréniques expansibles recouvertes

Publication

EP 0913425 A3 19990714 (DE)

Application

EP 98118983 A 19981007

Priority

DE 19747538 A 19971028

Abstract (en)

[origin: EP0913425A2] Organic silicic acid derivatives with a melting point below 10 degrees C are used as waterproofing agents for expandable polystyrene (EPS) particles containing a blowing agent and coated with 0.01-0.5 wt.% of the waterproofing agent. Independent claims are also included for (a) the production of EPS particles as above in which (i) the particles are treated with an aqueous emulsion containing 10-80 wt.% waterproofing agent, or (ii) the particles are coated with the waterproofing agent adsorbed on microfine silica, or (iii) the waterproofing agent is added during the production of EPS beads by the aqueous suspension polymerisation of styrene; (b) expanded polystyrene (XPS) beads coated with 0.01-0.5 wt.% waterproofing agent as above; and (c) the production of XPS beads, by expansion of the coated EPS particles as above or by coating XPS beads with 0.01-0.5 wt.% waterproofing agent as above.

IPC 1-7

C08J 9/224; **C08J 9/228**

IPC 8 full level

C08J 9/224 (2006.01); **C08K 5/098** (2006.01); **C08K 5/103** (2006.01); **C08K 5/54** (2006.01)

CPC (source: EP)

C08J 9/224 (2013.01); **C08K 5/098** (2013.01); **C08K 5/103** (2013.01); **C08K 5/54** (2013.01); **C08J 2325/06** (2013.01)

Citation (search report)

- [X] US 3661810 A 19720509 - GAHMIG HERBERT
- [X] DATABASE WPI Section Ch Week 9001, Derwent World Patents Index; Class A13, AN 90-005279, XP002101440

Cited by

EP1394198A1; US7183358B2; US10829505B2

Designated contracting state (EPC)

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